



Automatic Valves

AUTOMATIC VALVES

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● HOW TO ORDER

■ BALL VALVE (1-PIECE & 3-PIECE SCREW TYPE)

Actuator Type	Actuator Size	Valve Size	Body & End Connection	Material	Accessory
AD	40	15	S1	Standard:SUS316	S/V - A/S - L/S - E/P
				SUS316	S/V : Solenoid Valve, A/S : Air Filter Regulator L/S : Limit Switch Box, E/P : Electro-Pneumatic Positioner
				S1 : 1-Piece Screw, S3 : 3-Piece Screw	
				S1 : 10A~50A(3/8"~2") & S3 : 8A~50A(1/4"~2")	
				40 : 40Ø 50 : 50Ø 65 : 65Ø	
AD : Double Acting, AS : Single Acting (Spring Return)					

■ BALL VALVE (FLANGE TYPE)

Actuator Type	Actuator Size	Valve Size	End Connection	Material	Accessory
AD	65	50	F	Standard:SUS304	S/V - A/S - L/S - E/P
				SUS304, SUS316, SCPH2, P.V.C, PVDF	
				JIS10K, 20K, 40K ANSI150#, 300#, 600#	
				15A ~ 350A (1/2" ~ 14")	

■ BUTTERFLY VALVE (WAFER TYPE)

Actuator Type	Actuator Size	Valve Size	End Connection	Material	Accessory
AD	65	50	BF	Standard:FC	S/V - A/S - L/S - E/P
				FC, SUS304, SUS316, P.V.C	
				JIS10K, 20K : High Performance ANSI150#, 300#	
				40A ~ 1000A (1-1/2" ~ 40")	

■ 3 - WAY BALL VALVE (FLANGE TYPE & SCREW TYPE)

Actuator Type	Actuator Size	Valve Size	End Connection	Material	Accessory
AD	80	50	TF	Standard:SUS304	S/V - A/S - L/S
				SUS304, SUS316	
				T-Port & Flange : F3WT, L-Port & Flange : F3WL T-Port & Screw : S3WT, L-Port & Screw : S3WL	
				Flange : 15A ~ 250A (1/2" ~ 10") Screw : 10A ~ 50A (3/8" ~ 2")	

I PIECE SCREWED BALL VALVE - DOUBLE ACTING

ROTARY ACTUATOR



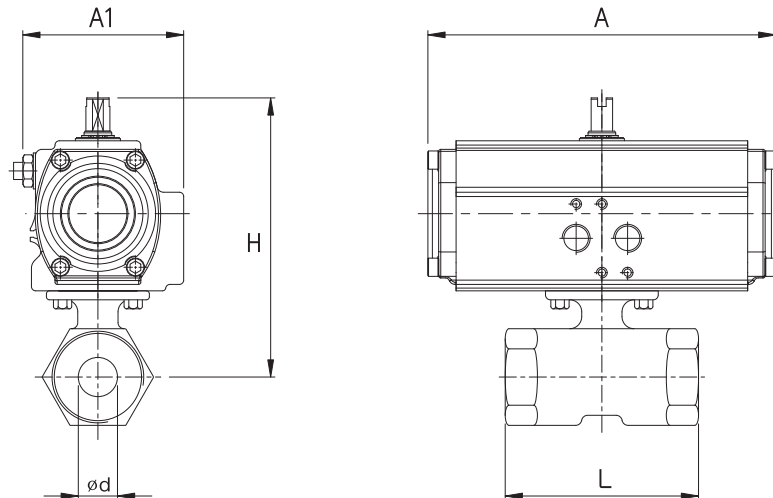
● Application

- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing

● Specification

Valve Size	10A(3/8″)	15A(1/2″)	20A(3/4″)	25A(1″)	32A(1-1/4″)	40A(1-1/2″)	50A(2″)
Actuator Model	AD40					AD50	
Actuator Type	Double Acting						
Operating Media	Compressed Dry Air						
Operating Pressure	4 ~ 7kg/cm²						
Rotating Angle	90° ±5°						
Fluid Temperature	-10℃~ 90℃ (Max. Temperature:160℃)						
Rating	1000Psi						
Body Material	SUS316/Body			SUS316/Ball	PTFE/Seat		
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E/P Positioner						

※ () Option



● Dimension

(mm)

Model	Size		A	A1	H (Approx)	L	ød
	mm	Inch					
AD40-10S1	10A	3/8"	108	60	97	45	7.7
AD40-15S1	15A	1/2"	108	60	100	56.5	9.2
AD40-20S1	20A	3/4"	108	60	105	59	12.5
AD40-25S1	25A	1"	108	60	110	71	15.2
AD40-32S1	32A	1-1/4"	108	60	115	78	20
AD50-40S1	40A	1-1/2"	162	75	135	90	25
AD50-50S1	50A	2"	162	75	170	100	32

I PIECE SCREWED BALL VALVE - SINGLE ACTING

ROTARY ACTUATOR



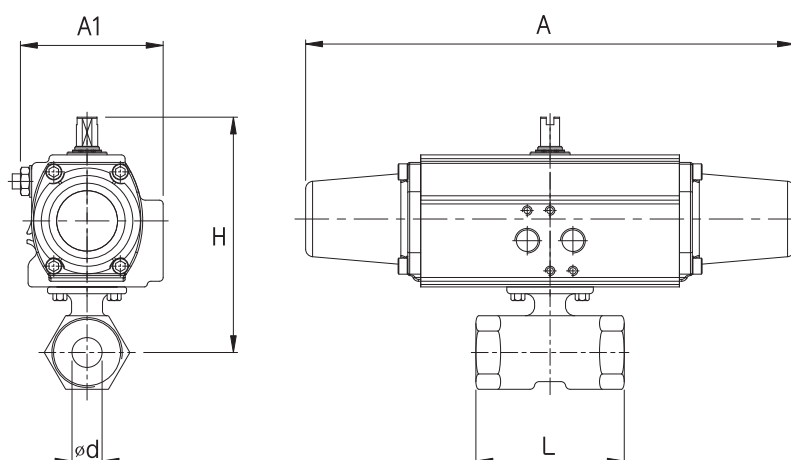
● Application

- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing

● Specification

Valve Size	10A(3/8″)	15A(1/2″)	20A(3/4″)	25A(1″)	32A(1-1/4″)	40A(1-1/2″)	50A(2″)
Actuator Model	AS40		AS50				AS65
Actuator Type	Single Acting (Spring Return)						
Operating Media	Compressed Dry Air						
Operating Pressure	4.5 ~ 7kg/cm²						
Rotating Angle	90° ±5°						
Fluid Temperature	-10℃~ 90℃ (Max. Temperature:160℃)						
Rating	1000Psi						
Body Material	SUS316/Body			SUS316/Ball	PTFE/Seat		
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E/P Positioner						

※ () Option



● Dimension

(mm)

Model	Size		A	A1	H (Approx)	L	ød
	mm	Inch					
AS40-10S1	10A	3/8"	108	60	97	45	7.7
AS40-15S1	15A	1/2"	108	60	100	56.5	9.2
AS50-20S1	20A	3/4"	257	75	120	59	12.5
AS50-25S1	25A	1"	257	75	125	71	15.2
AS50-32S1	32A	1-1/4"	257	75	130	78	20
AS50-40S1	40A	1-1/2"	257	75	135	90	25
AS65-50S1	50A	2"	314	89	190	100	32

3 PIECE SCREWED BALL VALVE - DOUBLE ACTING

ROTARY ACTUATOR



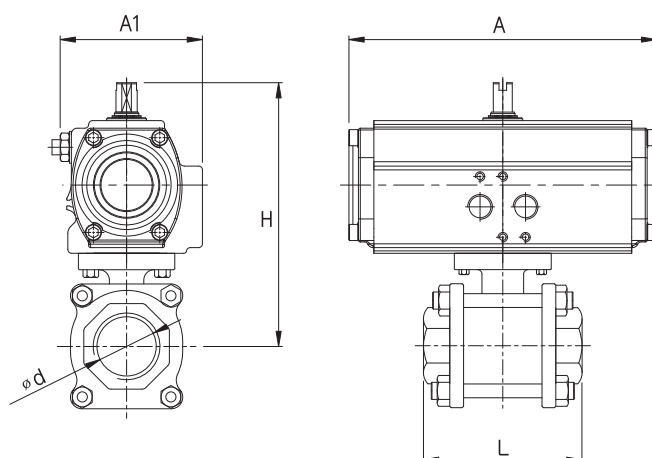
● Application

- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing

● Specification

Valve Size	8A(1/4")	10A(3/8")	15A(1/2")	20A(3/4")	25A(1")	32A(1-1/4")	40A(1-1/2")	50A(2")
Actuator Model	AD40				AD50		AD65	
Actuator Type	Double Acting							
Operating Media	Compressed Dry Air							
Operating Pressure	4 ~ 7kg/cm ²							
Rotating Angle	90° ± 5°							
Fluid Temperature	-10℃~ 90℃ (Max. Temperature:160℃)							
Rating	1000Psi							
Body Material	SUS316/Body				SUS316/Ball		PTFE/Seat	
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E/P Positioner							

※ () Option



● Dimension

(mm)

Model	Size		A	A1	H (Approx)	L	ød
	mm	Inch					
AD40-8S3	8A	1/4"	108	60	114	60	8
AD40-10S3	10A	3/8"	108	60	114	60	10
AD40-15S3	15A	1/2"	108	60	114	65	15
AD40-20S3	20A	3/4"	108	60	116	75	20
AD50-25S3	25A	1"	162	75	140	85	25
AD50-32S3	32A	1-1/4"	162	75	150	101	32
AD65-40S3	40A	1-1/2"	202	89	175	110	40
AD65-50S3	50A	2"	202	89	190	130	50

3 PIECE SCREWED BALL VALVE - SINGLE ACTING

ROTARY ACTUATOR



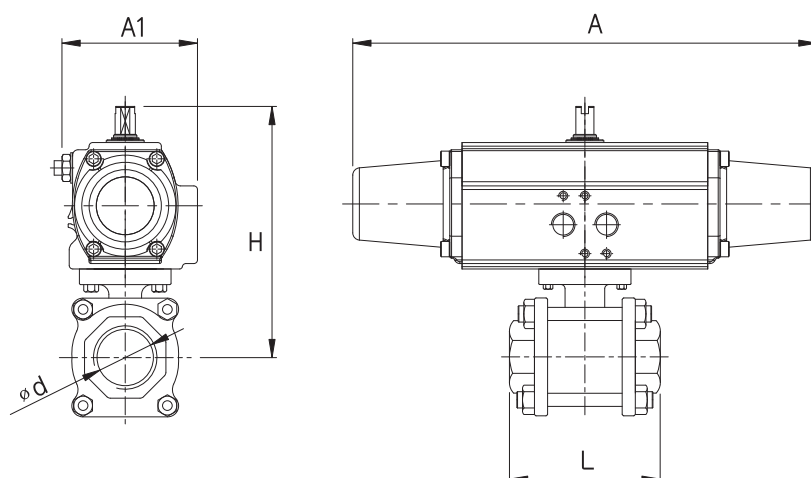
● Application

- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing

● Specification

Valve Size	8A(1/4")	10A(3/8")	15A(1/2")	20A(3/4")	25A(1")	32A(1-1/4")	40A(1-1/2")	50A(2")
Actuator Model	AS40		AS50			AS65		
Actuator Type	Single Acting (Spring Return)							
Operating Media	Compressed Dry Air							
Operating Pressure	4.5 ~ 7kg/cm ²							
Rotating Angle	90° ±5°							
Fluid Temperature	-10℃~ 90℃ (Max. Temperature:160℃)							
Rating	1000Psi							
Body Material	SUS316/Body			SUS316/Ball		PTFE/Seat		
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E/P Positioner							

※ () Option



● Dimension

(mm)

Model	Size		A	A1	H (Approx)	L	ød
	mm	Inch					
AS40-8S3	8A	1/4"	108	60	114	60	8
AS40-10S3	10A	3/8"	108	60	114	60	10
AS50-15S3	15A	1/2"	257	75	127	65	15
AS50-20S3	20A	3/4"	257	75	135	75	20
AS50-25S3	25A	1"	257	75	140	85	25
AS65-32S3	32A	1-1/4"	314	89	166	101	32
AS65-40S3	40A	1-1/2"	314	89	175	110	40
AS65-50S3	50A	2"	314	89	185	130	50

FLANGED BALL VALVE - DOUBLE ACTING

ROTARY ACTUATOR



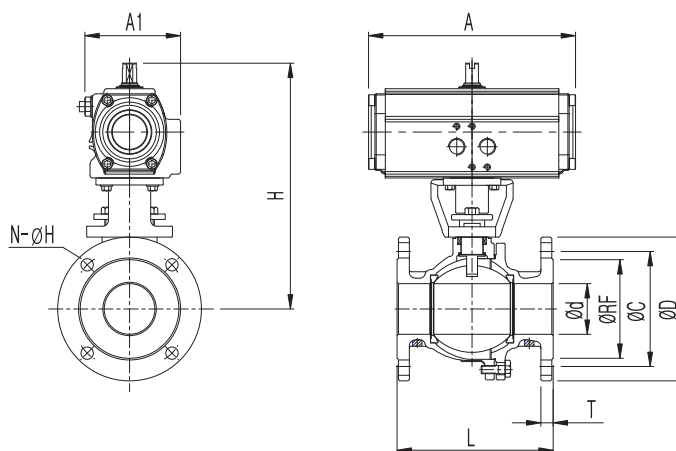
● Application

- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing
- Food & Beverage lines
- Vacuum distribution pipes

● Specification

Valve Size	15A ~ 250A		
Actuator Model	AD50 ~ AD200		
Actuator Type	Double Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	4 ~ 7kg/cm ²		
Rotating Angle	90° ± 5°		
Fluid Temperature	-10℃ ~ 90℃ (-10℃ ~ 150℃)		
Rating	JIS10K (20K) (40K) ANSI150# (300#) (600#)		
Body Material	SCS13 (SCS14)/Body	SUS304 (SUS316)/Ball	PTFE (RTFE, PEEK, METAL)/Seat
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E/P Positioner		

※ () Option



● Dimension

(mm)

Model	Size		A	A1	H (Approx)	L	END CONNECTION(JIS 10K RF)					
	mm	inch					T	Ød	ØRF	ØC	ØD	N-ØH
AD50-15F	15A	1/2"	162	75	181	108	12	15	52	70	95	4-15
AD50-20F	20A	3/4"	162	75	184	117	14	20	58	75	100	4-15
AD50-25F	25A	1"	162	75	211	127	14	25	70	90	125	4-19
AD65-32F	32A	1-1/4"	202	89	217	140	16	32	80	100	135	4-19
AD65-40F	40A	1-1/2"	202	89	238	165	16	40	85	105	140	4-19
AD65-50F	50A	2"	202	89	246	178	16	50	100	120	155	4-19
AD80-65F	65A	2-1/2"	262	101	270	190	18	65	120	140	175	4-19
AD80-80F	80A	3"	262	101	313	203	18	80	130	150	185	8-19
AD100-100F	100A	4"	311	129	347	229	18	100	155	175	210	8-19
AD125-125F	125A	5"	390	151	462	356	20	125	185	210	250	8-23
AD140-150F	150A	6"	431	164	501	394	22	150	215	240	280	8-23
AD160-200F	200A	8"	506	189	579	457	22	200	265	290	330	12-23
AD200-250F	250A	10"	605	231	753	533	24	250	325	355	400	12-25

※ Actuator 250, 300 : Option

FLANGED BALL VALVE - SINGLE ACTING

ROTARY ACTUATOR



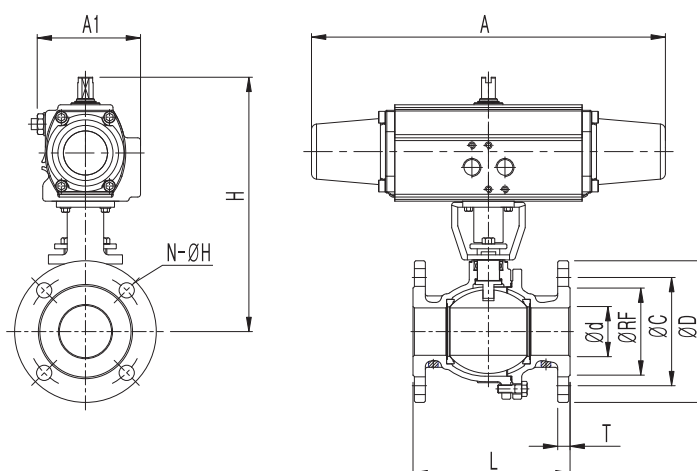
● Application

- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing
- Food & Beverage lines.
- Vacuum distribution pipes.

● Specification

Valve Size	15A ~ 200A		
Actuator Model	AS50 ~ AS200		
Actuator Type	Single Acting(Spring Return)		
Operating Media	Compressed Dry Air		
Operating Pressure	4.5 ~ 7kg/cm ²		
Rotating Angle	90° ± 5°		
Fluid Temperature	-10℃ ~ 90℃ (-10℃ ~ 150℃)		
Rating	JIS10K (20K) (40K) ANSI150# (300#) (600#)		
Body Material	SCS13 (SCS14)/Body	SUS304 (SUS316)/Ball	PTFE (RTFE, PEEK, METAL)/Seat
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E/P Positioner		

※ () Option



● Dimension

(mm)

Model	Size		A	A1	H (Approx)	L	END CONNECTION(JIS 10K RF)					
	mm	inch					T	Ød	ØRF	ØC	ØD	N-ØH
AS50-15F	15A	1/2"	257	75	181	108	12	15	52	70	95	4-15
AS50-20F	20A	3/4"	257	75	184	117	14	20	58	75	100	4-15
AS65-25F	25A	1"	314	89	193	127	14	25	70	90	125	4-19
AS65-32F	32A	1-1/4"	314	89	217	140	16	32	80	100	135	4-19
AS65-40F	40A	1-1/2"	314	89	238	165	16	40	85	105	140	4-19
AS80-50F	50A	2"	430	101	261	178	16	50	100	120	155	4-19
AS80-65F	65A	2-1/2"	430	101	270	190	18	65	120	140	175	4-19
AS100-80F	80A	3"	500	129	333	203	18	80	130	150	185	8-19
AS125-100F	100A	4"	606	151	368	229	18	100	155	175	210	8-19
AS140-125F	125A	5"	682	164	480	356	20	125	185	210	250	8-23
AS160-150F	150A	6"	781	189	525	394	22	150	215	240	280	8-23
AS200-200F	200A	8"	982	231	647	457	22	200	265	290	330	12-23

※ Actuator 250, 300 : Option

BUTTERFLY VALVE - DOUBLE ACTING

ROTARY ACTUATOR



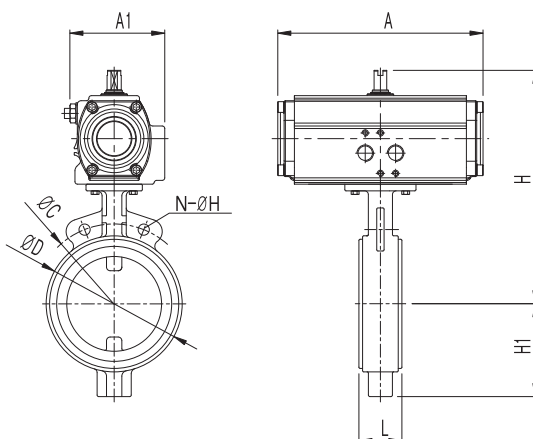
● Application

- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air ventilation
- Medical equipments, Vacuum packing
- Air ventilation systems

● Specification

Valve Size	40A ~ 600A		
Actuator Model	AD50 ~ AD200		
Actuator Type	Double Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	4 ~ 7kg/cm ²		
Rotating Angle	90° ±5°		
Fluid Temperature	0°C ~ 85°C (-20°C ~ 200°C)		
Rating	JIS10K Wafer		ANSI150# Wafer
Body Material	FC (SCS13)/Body	SCS13 (SCS14)/Disc	EPDM (MTFE)/Seat
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E/P Positioner		

※ () Option



● Dimension

(mm)

Model	Size		A	A1	H (Approx)	H1	L	END CONNECTION(JIS 10K WAFER)		
	mm	inch						ØD	ØC	N-ØH
AD50-40BF	40A	1-1/2"	162	75	215	58	41	86	105	4-19
AD50-50BF	50A	2"	162	75	217	65	43	105	120	4-19
AD50-65BF	65A	2-1/2"	162	75	227	71	46	114	140	4-19
AD65-80BF	80A	3"	202	89	256	83	46	129	150	8-19
AD65-100BF	100A	4"	202	89	270	100	52	155	175	8-19
AD80-125BF	125A	5"	262	101	300	110	56	180	210	8-23
AD80-150BF	150A	6"	262	101	314	130	56	207	240	8-23
AD100-200BF	200A	8"	311	129	390	163	60	260	290	12-23
AD100-250BF	250A	10"	311	129	428	227	68	331	355	12-25
AD125-300BF	300A	12"	390	151	482	252	78	377	400	16-25
AD140-350BF	350A	14"	431	164	510	272	78	416	445	16-25
AD160-400BF	400A	16"	506	189	585	343	102	475	510	16-27
AD160-450BF	450A	18"	506	189	625	366	114	535	565	20-27
AD200-500BF	500A	20"	605	231	783	421	127	590	620	20-27
AD200-600BF	600A	24"	605	231	870	493	154	695	730	24-33

※ Actuator 250, 300 : Option

BUTTERFLY VALVE - SINGLE ACTING

ROTARY ACTUATOR



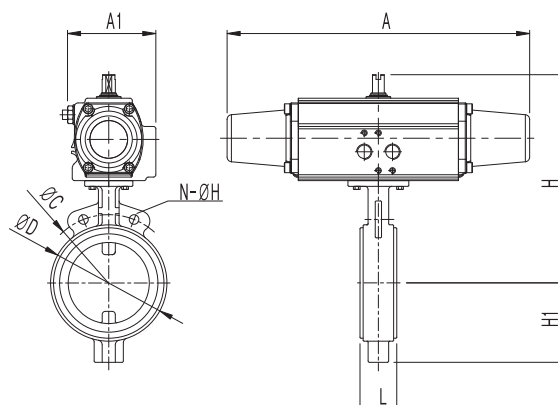
● Application

- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air ventilation
- Medical equipments, Vacuum packing
- Air ventilation systems

● Specification

Valve Size	40A ~ 500A		
Actuator Model	AS50 ~ AS200		
Actuator Type	Single Acting (Spring Return)		
Operating Media	Compressed Dry Air		
Operating Pressure	4.5 ~ 7kg/cm ²		
Rotating Angle	90° ± 5°		
Fluid Temperature	0°C ~ 85°C (-20°C ~ 200°C)		
Rating	JIS10K Wafer		ANSI150# Wafer
Body Material	FC (SCS13)/Body	SCS13 (SCS14)/Disc	EPDM (MTFE)/Seat
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E/P Positioner		

※ () Option



● Dimension

(mm)

Model	Size		A	A1	H (Approx)	H1	L	END CONNECTION(JIS 10K WAFER)		
	mm	inch						ØD	ØC	N-ØH
AS50-40BF	40A	1-1/2"	257	75	215	58	41	86	105	4-19
AS50-50BF	50A	2"	257	75	217	65	43	105	120	4-19
AS65-65BF	65A	2-1/2"	314	89	250	71	46	114	140	4-19
AS65-80BF	80A	3"	314	89	256	83	46	129	150	8-19
AS80-100BF	100A	4"	430	101	287	100	52	155	175	8-19
AS80-125BF	125A	5"	430	101	300	110	56	180	210	8-23
AS100-150BF	150A	6"	500	129	334	130	56	207	240	8-23
AS100-200BF	200A	8"	500	129	390	163	60	260	290	12-23
AS125-250BF	250A	10"	606	151	455	227	68	331	355	12-25
AS140-300BF	300A	12"	682	164	500	252	78	377	400	16-25
AS160-350BF	350A	14"	781	189	544	272	78	416	445	16-25
AS160-400BF	400A	16"	781	189	585	343	102	475	510	16-27
AS200-450BF	450A	18"	982	231	704	366	114	535	565	20-27
AS200-500BF	500A	20"	982	231	780	421	127	590	620	20-27

※ Actuator 250, 300 : Option

3-WAY FLANGED BALL VALVE - DOUBLE ACTING

ROTARY ACTUATOR



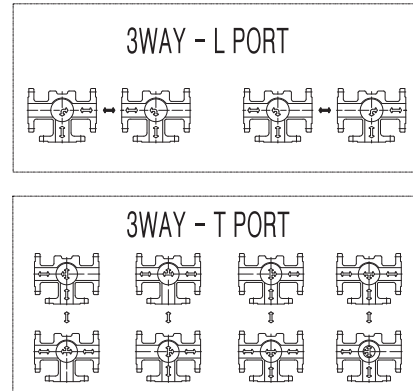
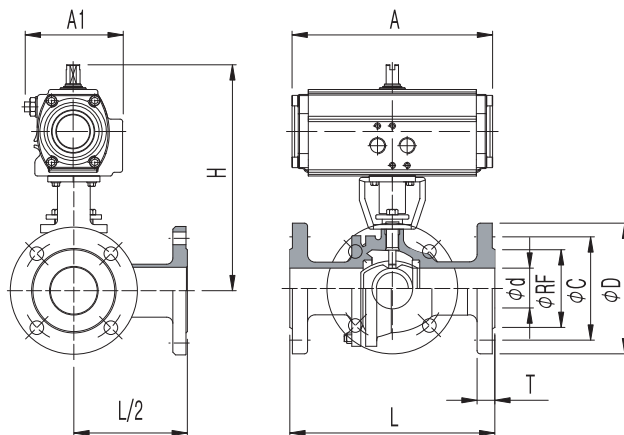
● Application

- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing
- Food & Beverage lines
- Vacuum distribution pipes

● Specification

Valve Size	15A ~ 200A		
Actuator Model	AD50 ~ AD200		
Actuator Type	Double Acting		
Operating Media	Compressed Dry Air		
Operating Pressure	4 ~ 7kg/cm ²		
Rotating Angle	90° ± 5°		
Fluid Temperature	-10℃ ~ 90℃ (-10℃ ~ 150℃)		
Rating	JIS10K		ANSI150#
Body Material	SCS13 (SCS14)/Body	SUS304 (SUS316)/Ball	PTFE /Seat
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E/P Positioner		

※ () Option



● Dimension

(mm)

Model	Size		A	A1	H (Approx)	L	L/2	END CONNECTION(JIS 10K RF)					
	mm	inch						T	ød	øRF	øC	øD	N-øH
AD50-15F3W	15A	1/2"	162	75	181	180	90	12	15	52	70	95	4-15
AD50-20F3W	20A	3/4"	162	75	184	190	95	14	20	58	75	100	4-15
AD65-25F3W	25A	1"	202	89	214	200	100	14	25	70	90	125	4-19
AD65-40F3W	40A	1-1/2"	202	89	217	240	120	16	40	85	105	140	4-19
AD80-50F3W	50A	2"	262	101	261	260	130	16	50	100	120	155	4-19
AD80-65F3W	65A	2-1/2"	262	101	270	320	160	18	65	120	140	175	4-19
AD100-80F3W	80A	3"	311	129	330	360	180	18	80	130	150	185	8-19
AD125-100F3W	100A	4"	390	151	368	430	215	18	100	155	175	210	8-19
AD140-125F3W	125A	5"	431	164	450	520	260	20	125	185	210	250	8-23
AD160-150F3W	150A	6"	506	189	500	560	280	22	150	215	240	280	8-23
AD200-200F3W	200A	8"	605	231	643	660	330	22	200	265	290	330	12-23

※ Actuator 250, 300 : Option

3-WAY SCREWED BALL VALVE - DOUBLE ACTING

ROTARY ACTUATOR

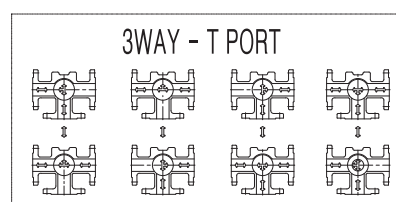
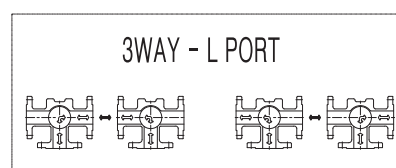
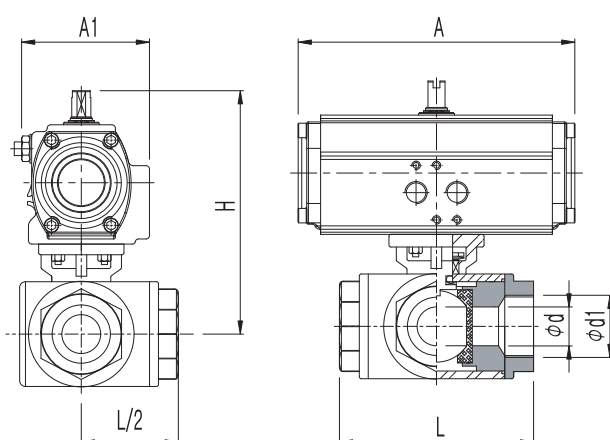


● Application

- Water distribution pipes
- Industrial cleaning machines
- Sterilizers, Boilers
- Air conditioners, Water filters
- Medical equipments, Vacuum packing

● Specification

Valve Size	8A(1/4″)	10A(3/8″)	15A(1/2″)	20A(3/4″)	25A(1″)	32A(1-1/4″)	40A(1-1/2″)	50A(2″)
Actuator Model	AD40			AD50		AD65		
Actuator Type	Double Acting							
Operating Media	Compressed Dry Air							
Operating Pressure	4 ~ 7kg/cm²							
Rotating Angle	90° ±5°							
Fluid Temperature	-10℃~ 90℃							
Rating	1000Psi							
Body Material	SUS316/Body			SUS316/Ball	PTFE/Seat			
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E/P Positioner							



● Dimension

(mm)

Model	Size		A	A1	H (Approx)	L	L/2	END CONNECTION(F-PT SCREW)	
	mm	Inch						Ød	Ød1
AD40-8S3W	8A	1/4"	108	60	130	73	36	11	1/4" PT
AD40-10S3W	10A	3/8"	108	60	130	73	36	11	3/8" PT
AD40-15S3W	15A	1/2"	108	60	130	73	36	12	1/2" PT
AD50-20S3W	20A	3/4"	162	75	149	85	42	15	3/4" PT
AD50-25S3W	25A	1"	162	75	157	100	50	20	1" PT
AD65-32S3W	32A	1-1/4"	202	89	180	113	56	25	1-1/4" PT
AD65-40S3W	40A	1-1/2"	202	89	186	127	63	32	1-1/2" PT
AD65-50S3W	50A	2"	202	89	197	150	75	38	2" PT

PLASTIC BALL VALVE - DOUBLE ACTING

ROTARY ACTUATOR

● Fluid Temperature and Range of Corrosion Resistance

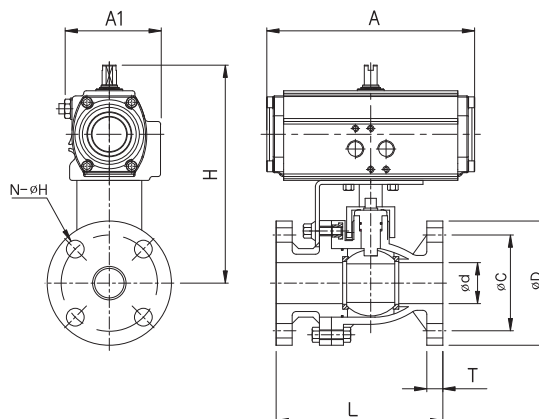
	Fluid Temperature (°C)								Range of Corrosion Resistance							
	-40	-20	-10	60	90	100	105	120~140	Weak Acid	Strong Acid	Oxidative Acid	Mixed Acid	Weak Alkali	Strong Alkali	Organic Solvent	Erosive Gas
PVC	X	X	▽	O	▽	X	X	X	O	O	O	O	O	O	X	O
PP	X	O	O	O	O	▽	X	X	O	O	▽	▽	O	O	▽	O
PPG	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
C-PVC	X	O	O	O	O	X	X	X	O	O	O	O	O	O	O	O
PVDF	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

※ O : Usable ▽ : According to Circumstances X : Unfit

● Specification

Valve Size	15A ~ 150A	
Actuator Model	AD50 ~ AD125	
Actuator Type	Double Acting	
Operating Media	Compressed Dry Air	
Operating Pressure	4 ~ 7kg/cm ²	
Rotating Angle	90° ± 5°	
Fluid Temperature	-10°C ~ 90°C (-40°C ~ 140°C)	
Rating	JIS10K	ANSI150#
Body Material	PVC, PP, PPG, C-PVC, PVDF	
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E/P Positioner	

※ () Option



● Dimension

(mm)

Model	Size		A	A1	H (Approx)	L	END CONNECTION(JIS 10K FF)				
	mm	inch					T	Ød	ØC	ØD	N-ØH
AD50-15F	15A	1/2"	162	75	168	145	14	15	70	95	4-15
AD50-20F	20A	3/4"	162	75	177	150	15	20	75	100	4-15
AD50-25F	25A	1"	162	75	190	170	15	25	90	125	4-19
AD50-30F	30A	1-1/4"	162	75	200	175	16	30	100	135	4-19
AD65-40F	40A	1-1/2"	202	89	212	190	16	40	105	140	4-19
AD65-50F	50A	2"	202	89	227	210	16	50	120	155	4-19
AD65-65F	65A	2-1/2"	202	89	247	260	18	65	140	175	4-19
AD80-80F	80A	3"	262	101	276	265	18	75	150	185	8-19
AD80-100F	100A	4"	262	101	301	300	18	100	175	210	8-19
AD100-125F	125A	5"	311	129	358	360	20	125	210	250	8-23
AD125-150F	150A	6"	390	151	414	360	22	150	240	280	8-23

● Fluid Temperature and Range of Corrosion Resistance

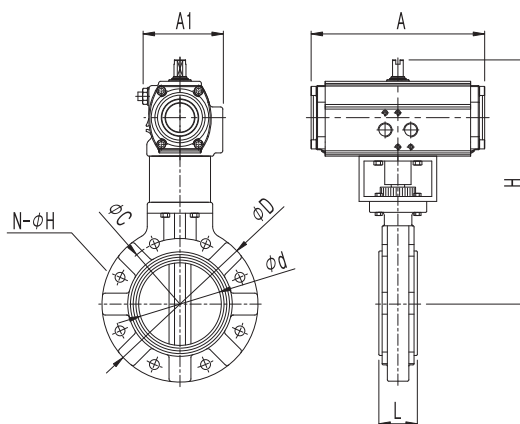
		Fluid Temperature (°C)								Range of Corrosion Resistance							
		-40	-20	-10	60	90	100	105	120~140	Weak Acid	Strong Acid	Oxidative Acid	Mixed Acid	Weak Alkali	Strong Alkali	Organic Solvent	Erosive Gas
Natural Rubber		▽	○	○	▽	X	X	X	X	○	X	X	X	○	▽	X	V
Synthetic Rubber	CR, NBR	▽	○	○	○	X	X	X	X	○	▽	X	▽	○	○	▽	▽
	EPDM, FPM	○	○	○	○	○	▽	X	X	○	▽	▽	○	○	○	▽	▽
PTFE		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

※ ○ : Usable ▽ : According to Circumstances X : Unfit

● Specification

Valve Size	50A ~ 400A	
Actuator Model	AD50 ~ AD160	
Actuator Type	Double Acting	
Operating Media	Compressed Dry Air	
Operating Pressure	4 ~ 7kg/cm ²	
Rotating Angle	90° ± 5°	
Fluid Temperature	-10°C ~ 90°C (-40°C ~ 140°C)	
Rating	JIS10K	ANSI150#
Body Material	PVC, PP, PPG, C-PVC, PVDF	
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch Box, E/P Positioner	

※ () Option



● Dimension

(mm)

Model	Size		A	A1	H (Approx)	L	END CONNECTION(JIS 10K WAFER)			
	mm	Inch					Ød	ØD	ØC	N-ØH
AD50-50BF	50A	2"	162	75	284	42	59	165	120	4-19
AD50-65BF	65A	2-1/2"	162	75	298	46	70	185	140	4-19
AD65-80BF	80A	3"	202	89	338	46	79	200	150	8-19
AD65-100BF	100A	4"	202	89	363	56	103	229	175	8-19
AD80-125BF	125A	5"	262	101	411	66	130	254	210	8-23
AD80-150BF	150A	6"	262	101	438	73	151	285	240	8-23
AD100-200BF	200A	8"	311	129	558	94	203	340	290	12-23
AD100-250BF	250A	10"	311	129	660	111	255	406	355	12-25
AD125-300BF	300A	12"	390	151	747	131	311	484	400	16-25
AD140-350BF	350A	14"	431	164	771	134	348	520	445	16-25
AD160-400BF	400A	16"	506	189	932	174	398	600	510	16-27

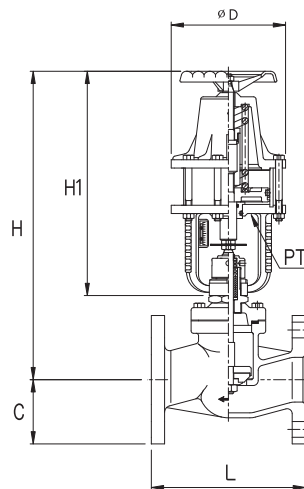


● Application

- Water distribution pipes
- Industrial cleaning machines
- Dyeing machine temperature control
- Middle and low stem equipments control
- Well water and wastewater disposal plant

● Specification

Valve Size	25A(1″)	32A(1-1/4″)	40A(1-1/2″)	50A(2″)	65A(2-1/2″)	80A(3″)		
Actuator Type	Cylinder Type							
Actuator Action	Single Acting (Spring Return)							
Operating Media	Compressed Dry Air							
Operating Press	4.5 ~ 7kg/cm²							
Liner Adjust	Manual Handle				None Manual Handle			
Fluid Temp	-30℃~ 220℃							
Connection	JIS 10K FF							
Body Material	SCS13							
Leakage allowance	ANSI Class V							
Accessory	Solenoid Valve, Air filter Regulator, Limit Switch							



● Dimension

(mm)

Model	Size		H (APPROX.)	H1	C	L	PT
	mm	Inch					
AGV-25A	25A	1"	355	271	63	140	1/4"
AGV-32A	32A	1-1/4"	361	271	68	156	1/4"
AGV-40A	40A	1-1/2"	361	271	70	180	1/4"
AGV-50A	50A	2"	373	271	78	186	1/4"
AGV-65A	65A	2-1/2"	422	300	88	196	1/4"
AGV-80A	80A	3"	422	300	93	250	1/4"

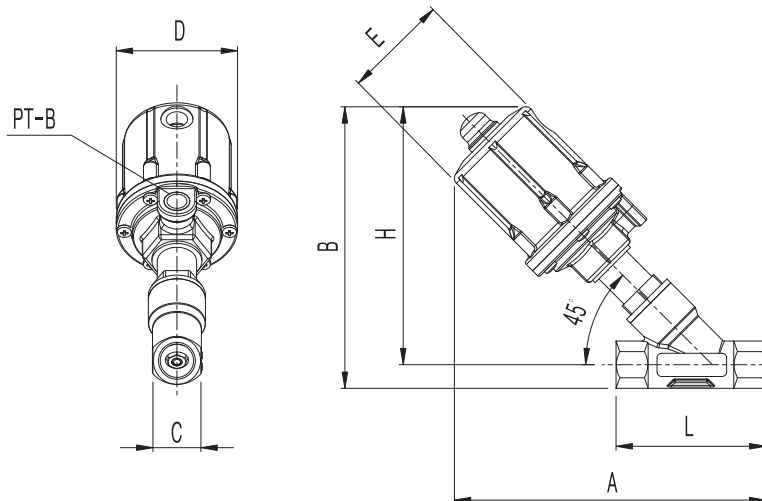


● Application

- Water distribution pipes
- Industrial cleaning machines
- Dyeing machine temperature control
- Middle and low stem equipments control
- Well water and wastewater disposal plant

● Specification

Valve Size	15A ~ 50A	
Actuator Type	Cylinder Type	
Actuator Action	Single Acting (Spring Return)	
Operating Media	Compressed Dry Air	
Operating Press	4.5 ~ 7kg/cm ²	
Liner Adjust	None Manual Handle	
Fluid Temp	Valve: -10℃ ~ 180℃	
End Connection	Female thread, socket welding	Flange type(Optional)
Body Material	SUS316	
Leakage allowance	ANSI Class VI	
Accessory	Limit Switch Box, Air filter Regulator	



● Dimension

(mm)

Model	Size		E	A	B	C	D	H	L	PT-B
AGV-15Y	15A	1/2"	Ø50	174.5	158	27	Ø68	144.5	84	1/4"
AGV-20Y	20A	3/4"	Ø50	182	163.5	34	Ø68	146.5	94	1/4"
AGV-25Y	25A	1"	Ø63	211	192.5	40	Ø84	172.5	104	1/4"
AGV-32Y	32A	1-1/4"	Ø63	225	211.5	49	Ø84	187	120	1/4"
AGV-40Y	40A	1-1/2"	Ø80	252	238.5	55	Ø105	211	130	1/4"
AGV-50Y	50A	2"	Ø80	275	267	70	Ø105	232	150	1/4"

KNIFE GATE VALVE – DOUBLE ACTING

CYLINDER LINEAR

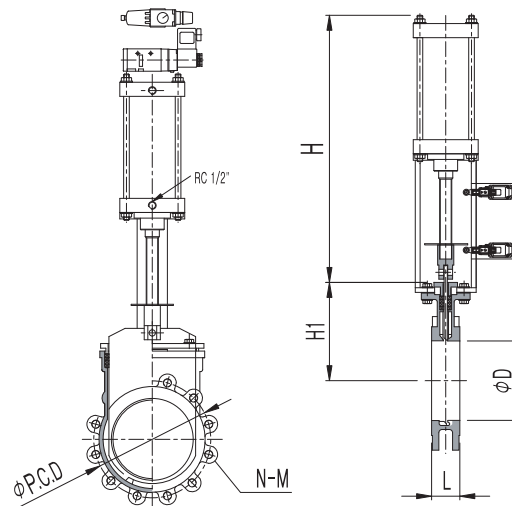


● Application

- Design Features
- Less Torque Pneumatic Cylinder
- Durable Internal Thread
- Leakage – Proof Gland
- Tow Pawls for Tight Seal

● Specification

Valve Size	50A ~ 500A
Actuator Model	AKGV Series
Actuator Type	Double Acting Cylinder
Operating Media	Compressed Dry Air
Operating Pressure	4 ~ 7kg/cm ²
Fluid Temperature	-40℃ ~ 120℃
Rating	JIS10K, ANSI150#
Body Material	SCS13, FCD45
Accessory	Solenoid Valve, Limit Switch, Air Filter & Regulator, Speed Controller, E/P Positioner, Manual Handle



● Dimension

JIS / 10K LUG(mm)

Model	Size		H1	H (APPROX.)	L	Ød	ØP.C.D	N-M
	mm	inch						
AKGV-50A	50A	2"	99	523	48	58	120	4-M16
AKGV-80A	80A	3"	120	568	51	75	150	8-M16
AKGV-100A	100A	4"	145	644	51	115	175	8-M16
AKGV-150A	150A	6"	175	750	57	167	240	8-M20
AKGV-200A	200A	8"	218	923	70	212	290	12-M20
AKGV-250A	250A	10"	270	1132	70	276	355	12-M22
AKGV-300A	300A	12"	310	1303	76	316	400	12-M22
AKGV-350A	350A	14"	340	1430	76	347	445	16-M22
AKGV-400A	400A	16"	400	1633	89	397	510	16-M22
AKGV-450A	450A	18"	445	1809	89	470	565	16-M24
AKGV-500A	500A	20"	495	1965	114	499	620	20-M24

TANK BOTTOM FLUSH VALVE (UPPER TYPE, LOWER TYPE)

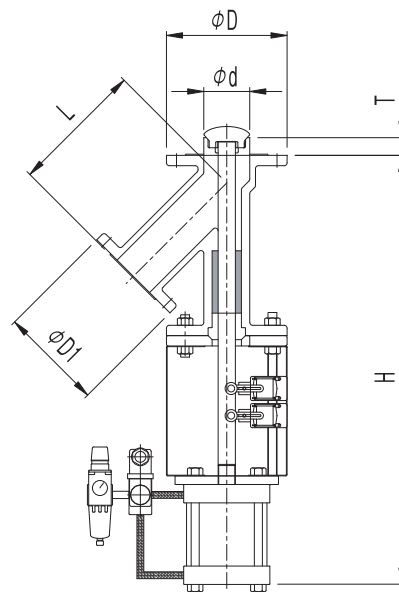
CYLINDER LINEAR

● Application

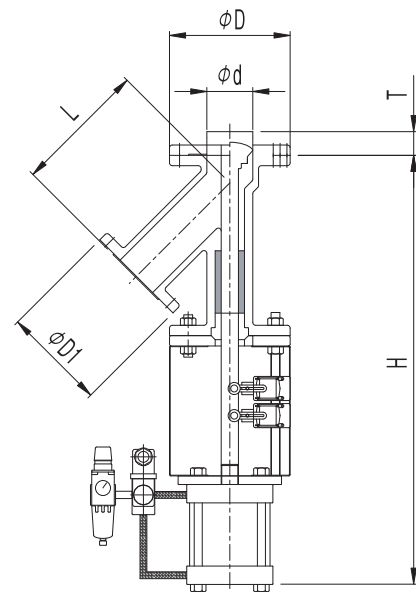
- Application for Tank Draining
- Minimize remains by insertion nozzle into tank
- Actualize suitable draining speed according as customer demands
- Tank bottom flush valve is Upper type and lower type

● Specification

Valve Size	25A ~ 250A
Actuator Model	ATF- Series
Actuator Type	Double Acting Cylinder
Operating Media	Compressed Dry Air
Operating Pressure	4 ~ 7kg/cm ²
Fluid Temperature	-40°C ~ 120°C
Rating	JIS10K, ANSI150#
Body Material	SCS13, SCPH2
Packing Material	ASBESTOS+TEFLON
Accessory	Solenoid Valve, Limit Switch, Air Filter & Regulator, Speed Controller, E/P Positioner, Manual Handle, Jacket



UPPER TYPE



LOWER TYPE

● Dimension

(A : Out-Let Flange Size. B : In-Let Flange Size.)

mm

Class	A × B	1"×1-1/2"	1-1/2"×2"	2"×2-1/2"	2"×3"	2-1/2"×3"	3"×4"	4"×5"	5"×6"	6"×8"	8"×10"	10"×12"
JIS10K ANSI 150#	H	390	420	450	450	500	530	630	780	800	920	1150
	T	30	38	45	50	50	64	76	90	100	115	120
	L	125	140	190	190	190	230	260	290	300	350	400
	ϕd	48	60	89	89	89	114	140	165	216	267	318
	ϕD	JIS 10K & ANSI 150# & For Approval										
	$\phi D1$	JIS 10K & ANSI 150# & For Approval										

TANK BOTTOM BALL VALVE

ROTARY ACTUATOR



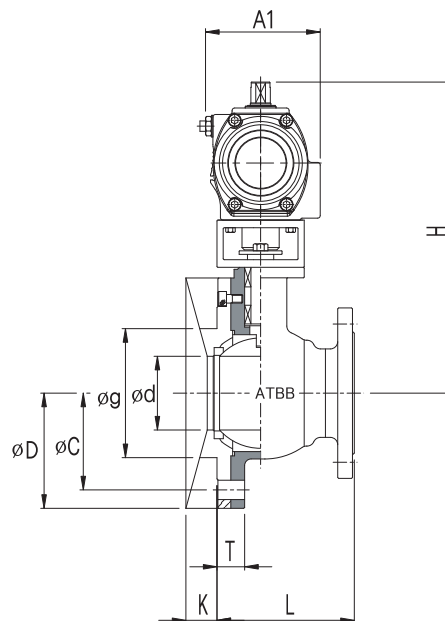
● Application

- Application for Tank Draining
- Fit for Tank Flange

● Specification

Valve Size	25A ~ 150A		
Actuator Model	ATBB- Series		
Actuator Type	Double Acting & Single Acting(Spring Return)		
Operating Media	Compressed Dry Air		
Operating Pressure	4 ~ 7kg/cm ² & 4.5 ~ 7kg/cm ²		
Fluid Temperature	-10℃~ 110℃		
Rating	JIS10K	ANSI150#	
Option	Tank Bottom Assemble Flange, Ferrule Type End, Screw Type End		
Material	SCS13(SCS14)/Body	SUS304(SUS316)/Ball	PTFE/SEAT
Accessory	Solenoid Valve, Limit Switch Box, Air Filter & Regulator, Speed Controller, E/P Positioner, Manual Handle		

※ () Option



● Dimension

mm

Model	A1	H (APPROX.)	L	K	TANK PAD CONNECTION(MAKER STANDARD)					
					T	Ød	Øg	ØC	ØD	N-ØH
ATBB50-25F	75	235	93	28.5	25	25	49	105	140	4-15
ATBB65-40F	89	289	109	29	25	40	61	120	155	4-15
ATBB65-50F	89	302	124	32	28	50	77	140	175	4-15
ATBB80-65F	101	331	131	37	30	65	102	160	195	6-15
ATBB80-80F	101	351	153	45	32	80	140	210	250	6-19
ATBB100-100F	129	383	170	62.5	35	100	166	240	280	8-19
ATBB125-125F	151	450	254	62.5	43	125	192	265	305	8-19
ATBB140-150F	164	516	277	62.5	45	150	243	310	350	8-23

HIGH PERFORMANCE BUTTERFLY VALVE

ROTARY ACTUATOR



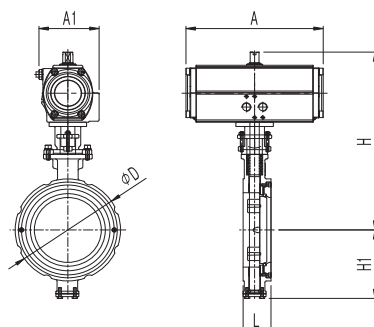
● Application

- Steam Header
- Textile Machine
- Gas and Steam Line
- Water Line

● Specification

Valve Size	40A ~ 450A			
Actuator Model	AD50 ~ AD160		AS50 ~ AS200	
Actuator Type	Double Acting		Single Acting(Spring Return)	
Operating Media	Compressed Dry Air			
Operating Pressure	4 ~ 7kg/cm ²		4.5 ~ 7kg/cm ²	
Fluid Temperature	PTFE (-20℃~ 160℃)	RTFE (-20℃~ 180℃)	MTFE (-30℃~ 195℃)	316SS (-50℃~ 300℃)
Rating	JIS 10K, JIS 20K, ANSI 150#, ANSI 300#			
Body Material	FCD450, SCPH2, SCS13, SCS14			
Disc Material	SCS13, SCS14			
Seat Material	RTFE, PTFE, MTFE, 316SS			
Accessory	Solenoid Valve, Limit Switch Box, Air Filter & Regulator, Speed Controller, E/P Positioner, Declutchable Gear Box			

※ () Option



● Dimension

JIS 10K WAFER/SCS13(mm)

MODEL	SIZE		ACTUATOR		H (APPROX.)	H1	L±0.5	END CONNECTION
	mm	Inch	A	A1				ØD
AD50-40HBF	40A	1-1/2"	162	75	254	73	43	86
AD50-50HBF	50A	2"	162	75	261	81	44	100
AD65-65HBF	65A	2-1/2"	202	89	289	83	46	123
AD65-80HBF	80A	3"	202	89	303	87	46	132
AD65-100HBF	100A	4"	202	89	310	111	52	157
AD80-125HBF	125A	5"	262	101	369	121	57	185
AD80-150HBF	150A	6"	262	101	390	145	59	220
AD100-200HBF	200A	8"	311	129	467	180	64	277
AD125-250HBF	250A	10"	390	151	531	220	72	337
AD125-300HBF	300A	12"	390	151	579	279	96	380
AD140-350HBF	350A	14"	431	164	625	309	93	410
AD160-400HBF	400A	16"	506	189	680	340	115	475
AD160-450HBF	450A	18"	506	189	720	370	115	534

Further inquiry on 500A ~ 700A (20" ~ 28"), Dimension of SCS13 and FCD450 is subject to be different.

● Application

- Steam Header
- Air Duct
- Large-sized Fan
- Line for emergency shut-off

● Specification

Valve Size	80A ~ 1500A (3" ~ 60")			
Actuator Model	AD50 ~ AD400D		AS50 ~ AS400D	
Actuator Type	Double Acting		Single Acting (Spring Return)	
Operating Media	Compressed Dry Air			
Operating Pressure	4.0 ~ 7kg/cm ²		4.5 ~ 7kg/cm ²	
Fluid Temperature	-5 ~ 600℃			
Rating	JIS 10K		ANSI 150#	
Body Type	Round type, Square type			
Body Material	P.V.C	SS41C	SUS304	SUS316
Disc Material	P.V.C	SS41C	SUS304	SUS316
Seat Material	STEEL, TEFLON ASBESTOS, GRAFOIL			
Accessory	Solenoid Valve, Limit Switch Box, Air Filter & Regulator, Speed Controller, E/P Positioner, Declutchable Gear Box			

※ () Option

● The Methods of Calculation To Fit Damper

1) Round type Damper

$$T = \frac{d^3 \times \Delta P}{12 \times n} \times 10^{-9} \times 1.8 = \quad [\text{Kg} \cdot \text{m}]$$

a : Height

b : Horizontal

d : Diameter

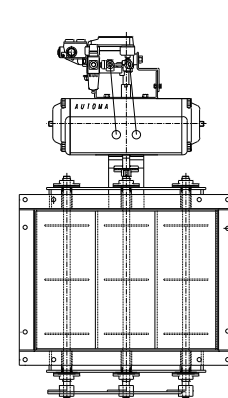
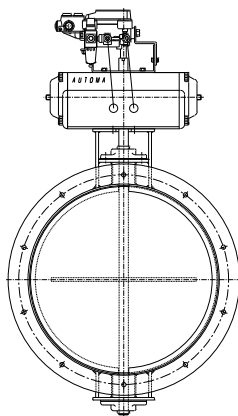
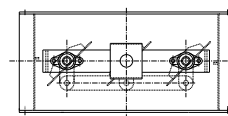
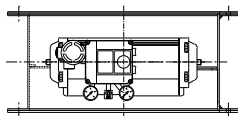
ΔP : Pressure (mmAq)

n : Blade Q'ty

↑ Bearing Mounting
(None Mounting = 2.5)

2) Square type Damper

$$T = \frac{a^2 \times b \times \Delta P}{8 \times n} \times 10^{-9} \times 1.8 = \quad [\text{Kg} \cdot \text{m}]$$





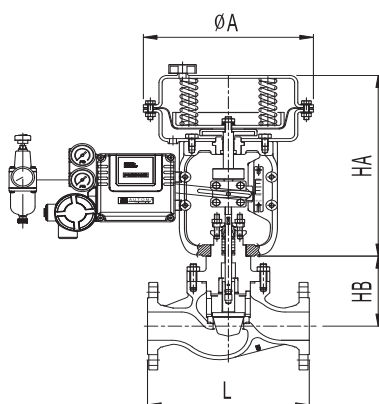
● Application

- Water distribution pipes
- Allows a large flow capacity
- High accuracy flow characteristics
- High steam equipments control
- 4-20mA DC In-put. PID control

● Specification

Valve Size	15A ~ 200A
Actuator Type	Diaphragm (Multi-Spring)
Actuator Action	Reverse Action (Air to open) , *Direct Action (Air to close)
Operating Media	Compressed Dry Air
In-Put Signal	4 ~ 20mA, DC
Operating Press	2.8 ~ 4kg/cm ²
Spring Range	0.8 ~ 2.4kg/cm ² , 1.2~2.4kg/cm ²
Fluid Temp	-20°C ~ 230°C , (-195°C ~ 550°C)
Connection	JIS 10K RF, (*20K, *40K), ANSI 150# RF, (*300#, *600#)
Body Material	SCPH2, SCS13A, SCS14A, (*SCS16A)
Leakage Allowance	Standard : ANSI Class IV, Optional : ANSI Class V, Soft seat : ANSI Class VI
Option	Soft Touch, Bellow Seal, Fin Bonnet, Mult Step Cage, Handwheel, Extension
Accessories	E/P Positioner, Solenoid Valve, Air Filter Regulator

※ () Option



● Dimension

JIS 10K RF(mm)
ANSI 150# RF(mm)
FLANGE CODE :DIN PN10 RF(mm)

Model	SIZE		L	HB	HA	ØA	STROKE
	mm	Inch					
ACV-15A	15A	1/2"	184	101	276	220	20
ACV-20A	20A	3/4"	184	101	276	220	20
ACV-25A	25A	1"	184	106	276	220	20
ACV-32A	32A	1-1/4"	222	111	320	270	25
ACV-40A	40A	1-1/2"	222	111	320	270	25
ACV-50A	50A	2"	254	124	320	270	25
ACV-65A	65A	2-1/2"	276	135	394	350	30
ACV-80A	80A	3"	298	167	394	350	40
ACV-100A	100A	4"	352	187	394	350	40
ACV-150A	150A	6"	451	232	452	365	50
ACV-200A	200A	8"	543	354	529	450	75

■ Body/trim material combinations and operating temperature range

BODY MATERIAL									
KS MATERIAL	JIS MATERIAL	D4107 SCPH2	D4103 SSC13	D4103 SSC14	D4107 SCPH21*	D4111 SCPL1*	D4103 SSC16*	TEMPERATURE : °C	
		G5151 SCPH2	G5121 SCS13A	G5121 SCS14A	G5151 SCPH21*	G5152 SCPL1*	G5121 SCS16A*		
D3706 STS316	G4303 SUS316	-5 ~ +425*	-195 ~ +550	-195 ~ +550	-5 ~ +550	-195 ~ +350*	-	A479 316	-
D3706 STS316+ STELLITE ARMORING	G4303 SUS316+ STELLITE ARMORING	-5 ~ +425*	-195 ~ +550	-195 ~ +550	-5 ~ +550	-195 ~ +350*	-	A479 316+ STELLITE ARMORING	
D3706 STS316+ SOFT SEAT	G4303 SUS316+ SOFT SEAT	-5 ~ +200	-80 ~ +200	-80 ~ +200	-	-45 ~ +200	-	A479 316+ SOFT SEAT	
D4103 SSC14A	G5121 SCS14A	-5 ~ +300	-195 ~ +300	-195 ~ +300	-5 ~ +300	-45 ~ +300	-	A351 CF8M	
SSC14A+ STELLITE ARMORING	SCS14A+ STELLITE ARMORING	-5 ~ +425	-195 ~ +550	-195 ~ +550	-5 ~ +550	-195 ~ +350*	-	A351 CF8M+ STELLITE ARMORING	17445G- 6 CrNiMo 18 19 +STELLITE ARMORING**
SSC14A+ SOFT SEAT	SCS14A+ SOFT SEAT	-5 ~ +200	-80 ~ +200	-80 ~ +200		-45 ~ +200	-	A351 CF8M+ SOFT SEAT	17445G- 6 CrNiMo 18 19+ SOFT SEAT**
D4103 SSC16A**	G5121 SCS16A**	-	-195 ~ +300	-195 ~ +300	-	-45 ~ +300	-195 ~ +300	A351 CF3M**	-
SCS16A+ STELLITE ARMORING**	SCS16A+ STELLITE ARMORING**	-	-80 ~ +200	-80 ~ +200	-	-45 ~ +200	-80 ~ +200	A351 CF3M+ STELLITE ARMORING**	-
SSC16A+ SOFT SEAT**	SCS16A+ SOFT SEAT**	-	-80 ~ +200	-80 ~ +200	-	-45 ~ +200	-80 ~ +200	A351 CF3M+ SOFT SEAT**	-
D4103 SSC19A**	G5121 SCS19A**	-	-195 ~ +300	-195 ~ +300	-	-195 ~ +300	-	A351 CF3**	-
SSC14S+ ATOMLOY**	SCS14S+ ATOMLOY**	-5 ~ +425	-	-	-5 ~ +550*	-	-	A351CF8M+ ATOMLOY**	17445G- 6 CrNiMo 18 19+ ATOMLOY**
		A216 WCB	A351 CF8	A351 CF8M	A217WC6**	A352 LCB**	A351CF3M**	ASTM MATERIAL	
		17245 GS-C25	17445G- 6 CrNi 18 9	17445G- 6 CrNiMo 18 19	17245GS- 17CrMo 55**	11156 GS-CK24**	-	DIN MATERIAL	
BODY MATERIAL									

Notes

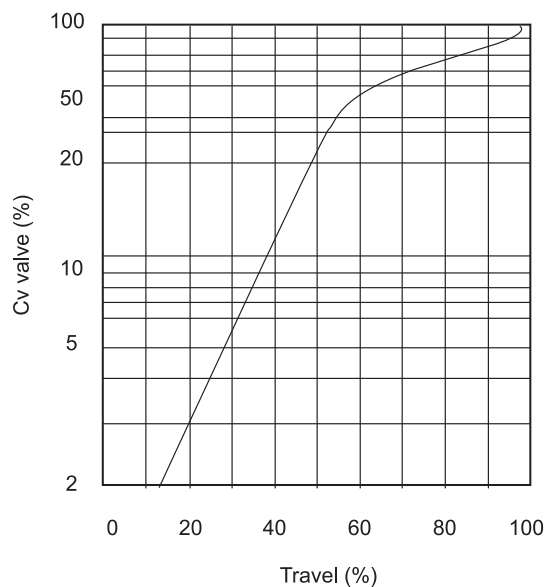
- 1) Use Temperature & Mixed Material of Body / Trim
- 2) Standard Material of Body / Trim by ☐ As To Automa Product.
- 3) It indicates KS / ASTM / DIN material to compare our standard JIS material.
- 4) 15A ~ 65A : (Trim Standard type.) Top Guide Plug Cocontrol Trim (EQ% & Linear) Type
Over 80A : Cage Guide Port Control Trim (Balance Plug & EQ% & Linear) Type
- 5) Product Marked by Asterick (**) is not stock goods
- 6) If fluid temperature is over 230°C , please certainly contact our sales team .
- 7) If there is any question , please contact our sales team anytime !

■ Cv value and travel

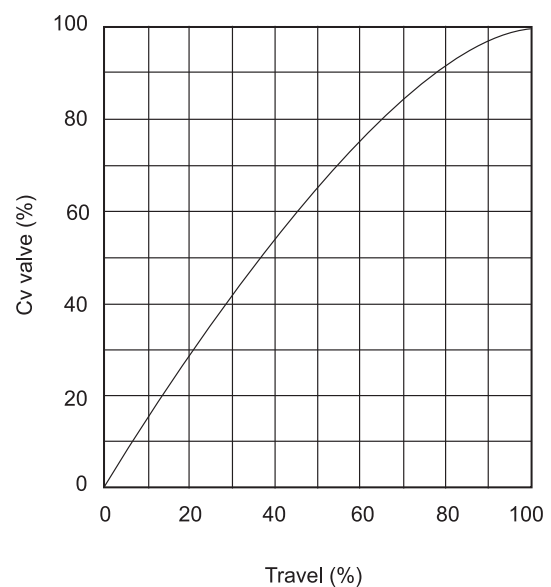
● High-capacity type cage (%V, LV, %T, LT)

Valve size (inch)		1-1/2"	2"	2-1/2"	3"	4"	6"	8"
Port size (inch)		1-1/2"	2"	2-1/2"	3"	4"	6"	8"
Rated Cv value	Metal or soft seat type							
	Equal Percentage characteristics (%V,%T)	30	50	100	140	220	420	820
	Metal or soft seat type Linear characteristics (LV,LT)	40	75	110	150	240	435	850
Rated travel (mm)		25		30	40		50	75

※ 1/2" CV=6, 3/4" CV=9 1" CV=14 1-1/4" CV=28



Equal percentage characteristics
(%V metal seat, %T soft seat)



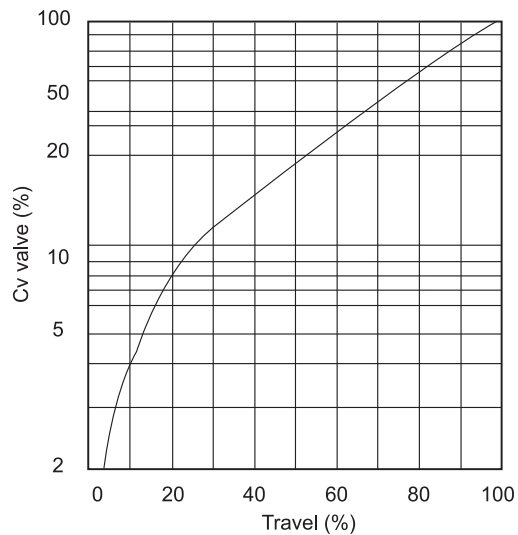
Linear characteristics
(LV metal seat, LT soft seat)

PNEUMATIC GLOBE VALVE (CONTROL)

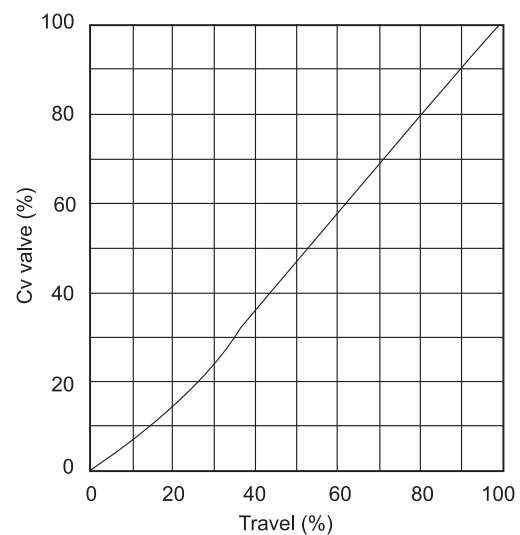
DIAPHRAGM ACTUATOR

● High-capacity type cage (%VF, LVF, %TF, LTF)

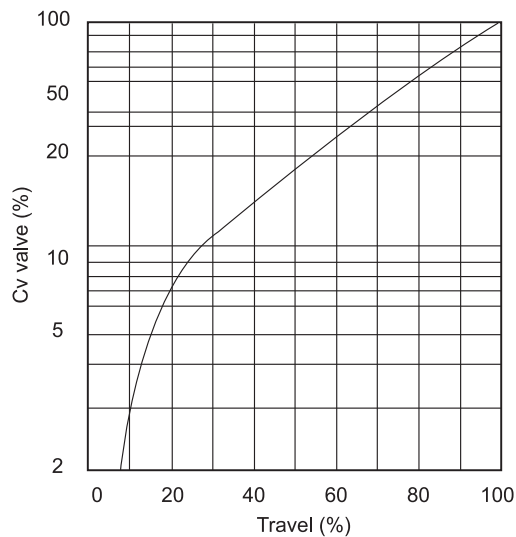
Valve size (inch)	1-1/2"	2"	2-1/2"	3"	4"	6"	8"
Port size (inch)	1-1/2"	2"	2-1/2"	3"	4"	6"	8"
Rated CV value (%VF,%LVF, %TF, LFT)	24	44	68	99	175	360	650
Rated travel (mm)	25		30	40		50	75



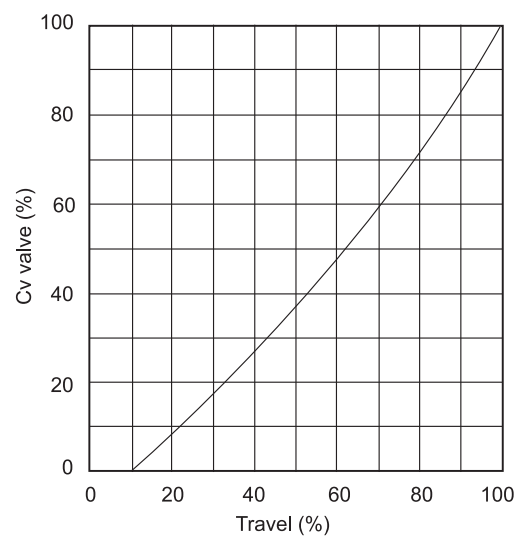
Equal percentage characteristics (%VF:metal seat)



Linear characteristics (LVF:metal seat)



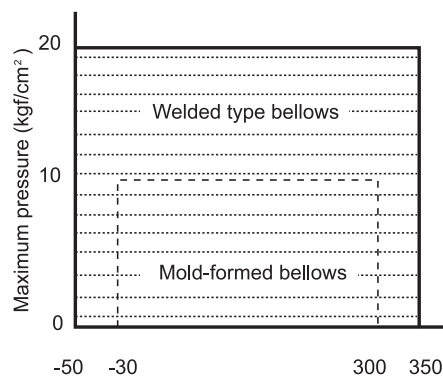
Equal percentage characteristics (%TF:soft seat)



Linear characteristics (LTF:soft seat)

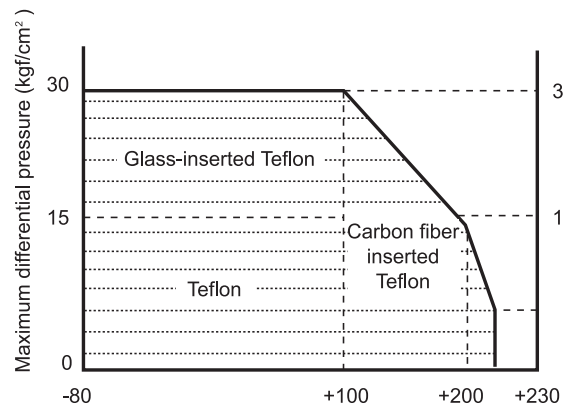
High flow characteristic type cage
Flow characteristics

Note) The above graphs indicate typical flow characteristics



Bellows Type Bonnet
Fluid temperature (°C)

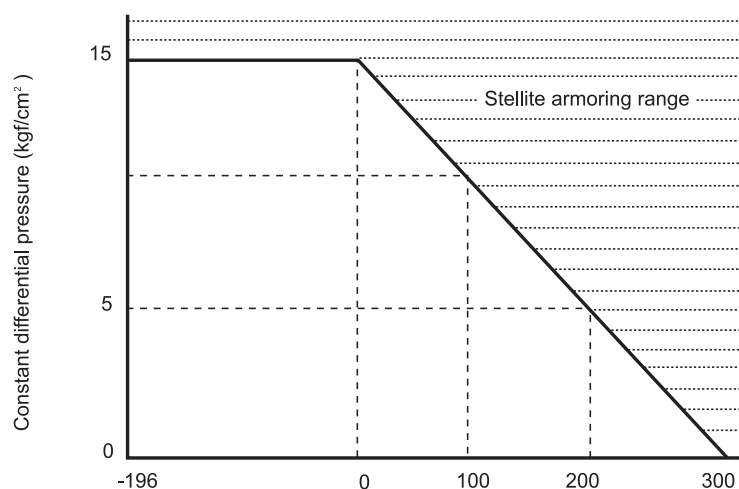
Operating temperature and pressure range of bellows type bonnet



Soft-Seat Type
Fluid temperature (°C)

Operating temperature and max. Differential pressure range of soft-seat type

Notes : If there is any possibility to cause erosion due to saturated steam or superheated-water, use the metal sheet.



Requiring Stellite armoring
Fluid temperature (°C)

- Notes
- 1) 17-4PH precipitation - hardened stainless steel (SCS24) requires no Stellite armoring.
 - 2) For cavitation / flashing service or oil - inhibited service 17 - PH (SCS24) or Stellite armoring is recommended regardless of temperature and differential pressure.

Temperature / constant differential pressure ranges requiring Stellite armoring

LIMIT SWITCH BOX

ACCESSORY

1. Valve Position Indicator

Limit switch box indicator offers clear location of the current valve position by 2 mechanical switches

2. “Quick-Set” Cam

The operating position of the switches can be easily changed by adjusting the high resolution spline cams manually and independently without the need for additional tools(cam closed-up, cam open-down)

3. Easy Wiring

ALS series are equipped with 2 standard conduit entries and 1 terminal strip with 8 point

4. Dual Wire Conduit

ALS10 : Dual 1/2”conduit entries

ALS30 : Dual 3/4”conduit entries

5. Captive Cover Bolts

Designed to be capted into the cover

6. Easy Mounting Bracket

Any actuator for rotary motion can be easily mounted. NAMUR bracket supplied for easy in mounting onto the actuator



ALS10
WEATHERPROOF (IP67)



ALS30
EXPLOSION PROOF (Exd IIC T6)

■ Ordering Number

Series	Area Classification	Switch Type
ALS	1: Weatherproof	0: 2 SPDT
	3: Explosion Proof	1: Proximity Sensor (PNP/NPN)
		2: 3 SPDT
		3: 4 SPDT (2 DPDT)

■ Standard Materials of Construction

NAME	NO.	SPECIFICATION
Outer Position Indicator	1	Polycarbonate
Inner Position Indicator	1	Polycarbonate
Housing	2	Die-Casting Aluminum
Shaft (stem)	1	304 Stainless Steel
Mechanical Switch	2	Used in UL CSA approved
Inserts	2	Bronze
O-Ring	4	Nitrile (Rubber)
Cam	2	Polycarbonate (open/close)
Spring	1	304 Stainless Steel
Cover Screws	4	304 Stainless Steel
Terminal Strip	1	Polyethylene

LIMIT SWITCH BOX

ACCESSORY

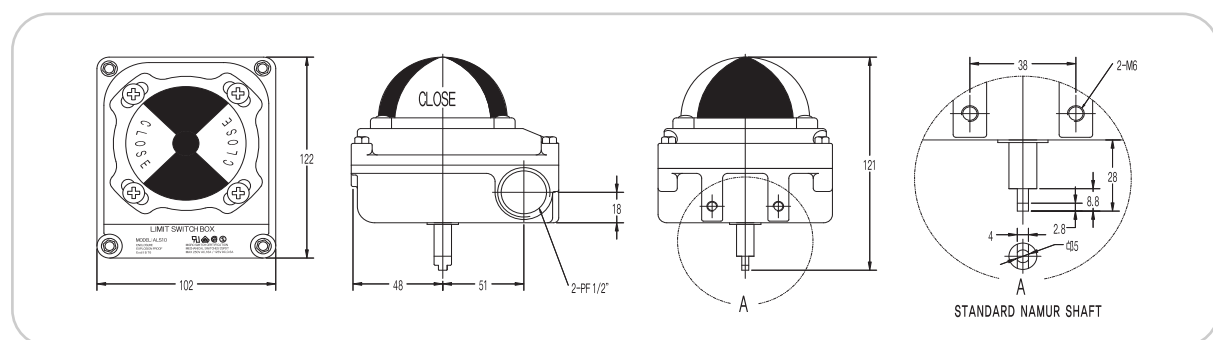
Specification

Description	Series	
Model	ALS10	ALS30
Ambient Temperature	-20°C to 85°C (-4°F to 185°F)	
Cable Entry	2×1/2" PF (PT) (NPT) (M20×1P/1.5P)	2×3/4" PF (PT) (NPT)
Terminal Block	8 Points	
Position Indicator	0° to 90° (Red for Close / Yellow for Open)	
Switch Type	2 SPDT Mechanical Switches (Proximity Sensors)	
Painting	Polyester Powder Coating with Black Color	
Bracket	Plastic / Steel	
Certificate	IP67	Exd IIC T6 (IP66)

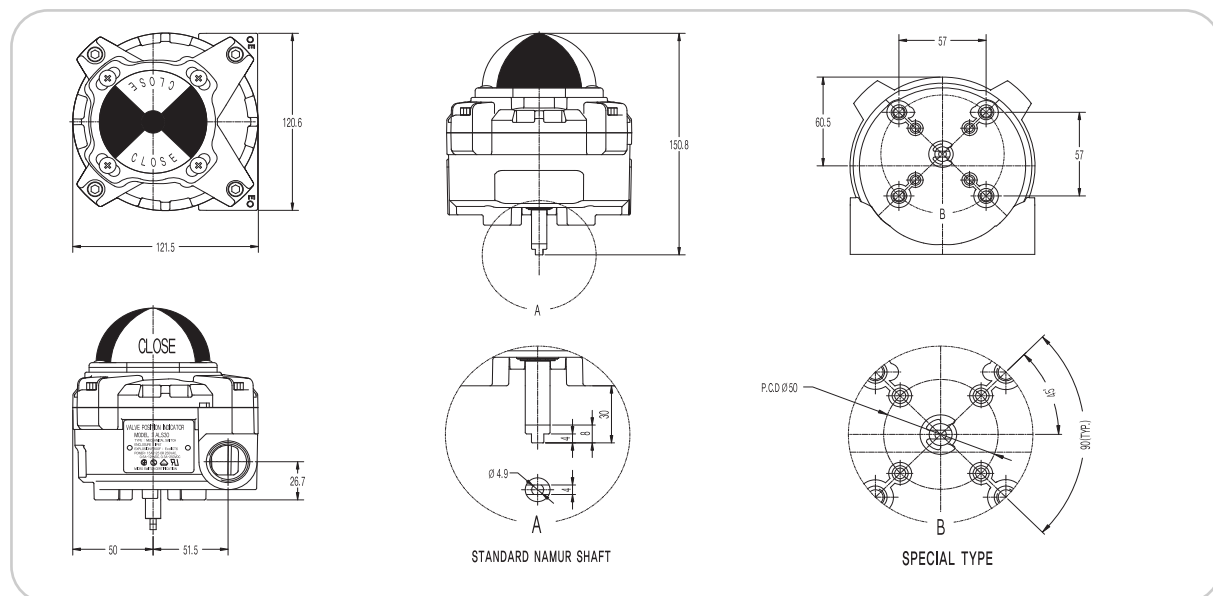
*() option

Dimension

ALS10 Weather proof



ALS30 Explosion Proof



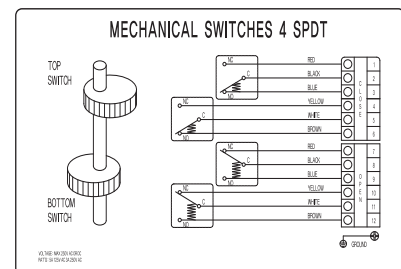
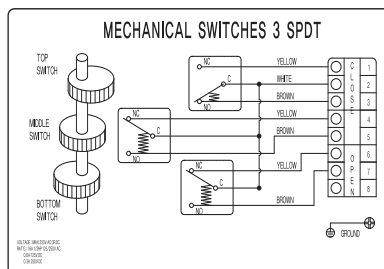
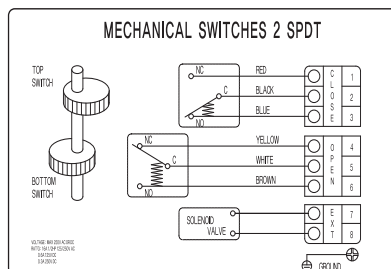
LIMIT SWITCH BOX

ACCESSORY

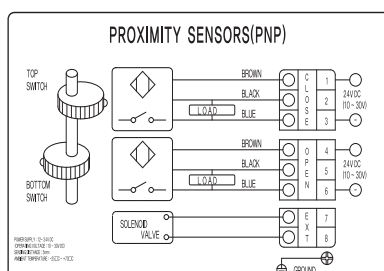
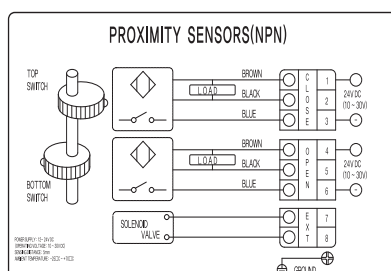
Model	Bracket	Material	Size	Model	Bracket	Material	Size
	P1 (ALS10, ALS30)	Plastic (ABS)	30 X 80 H:20		S4 (ALS30)	Steel	30 X 80 H:30
	S1 (ALS10)	Steel	30 X 38 H:20~30		A1 (ALS30)	Aluminium	30 X 80 H:20
	S2 (ALS30)	Steel	30 X 80 H:20		A2 (ALS30)	Aluminium	30 X 80 H:30
	S3 (ALS30)	Steel	30 X 130 H:30		A3 (ALS30)	Aluminium	30 X 130 H:30

Wiring Diagram

Mechanical Switch Type (UL CSA VDE Approved)



Proximity Sensor Type (UL CE Approved)



MECHANICAL SWITCHES USED IN APPROVED

- TYPE : MECHANICAL SWITCH
- VOLTAGE : MAX 250V AC OR DC
- CURRENT : 0.6A 125V DC OR 16A 1/2HP
125, 250V AC

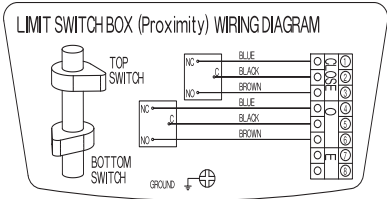
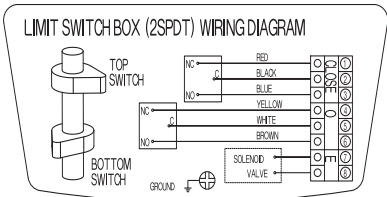
LIMIT SWITCH BOX

ACCESSORY

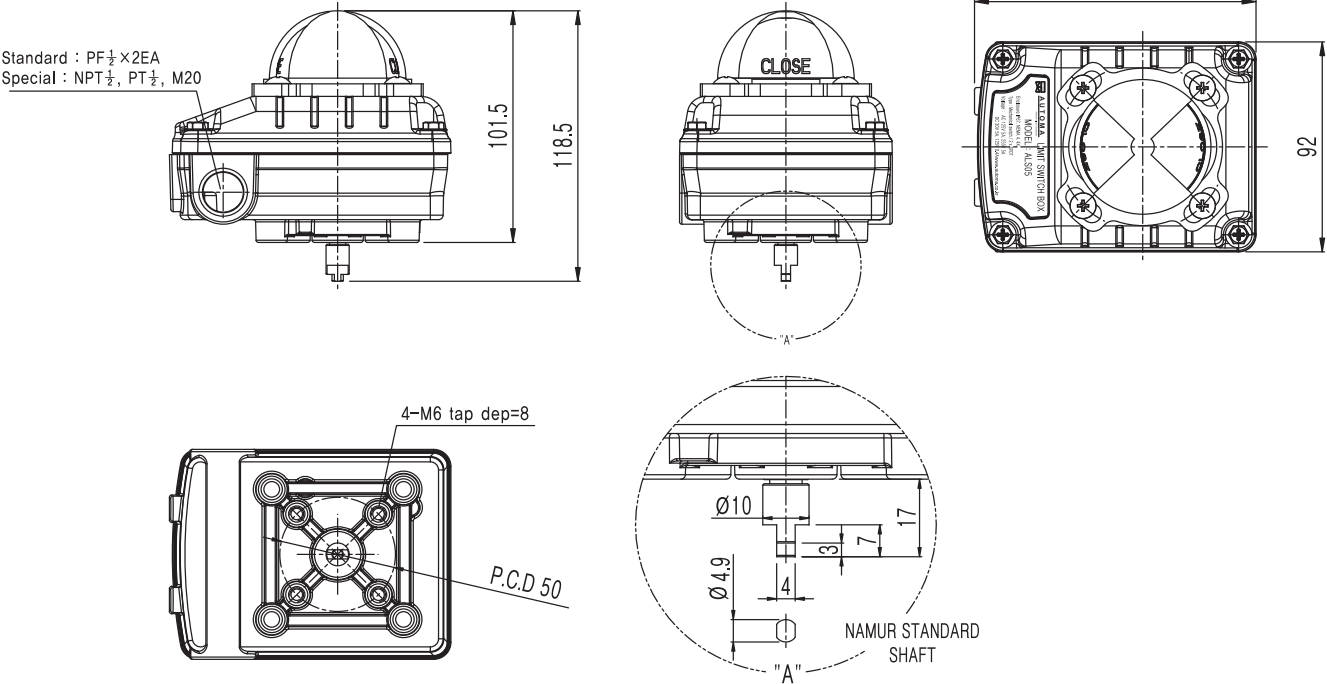
● Specification

Model	ALS05 Series (Weather Proof)	
Type	Mechanical switch	Proximity switch(Optional)
Switch type	SPDT×2	Proximity sensor×2
Voltage	AC 125V 5A, 250V 5A DC 30V 5A, 125V 0.4A	DC 12~24V 200mA max
Enclosure protection	IP 67	
Ambient temperature	-20℃~80℃ (Option : 125℃)	-25℃~70℃
Terminal	8 Points	
Mounting bracket	NAMUR VDI / VDE 3845, ISO 5211	
Material	Aluminum Diecasting	
Conduit entry	PF 1/2×2EA : Standard	NPT 1/2, PT 1/2, M20(Optional)
Weight	880g	

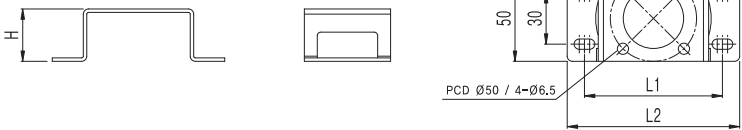
● Wire Diagram



● Dimension(mm)



● Bracket(mm)



Note

Model No.	H	L1	L2
BK-1	30.5	80	100
BK-2	40.5		
BK-3	40.5	130	150
BK-4	60.5		

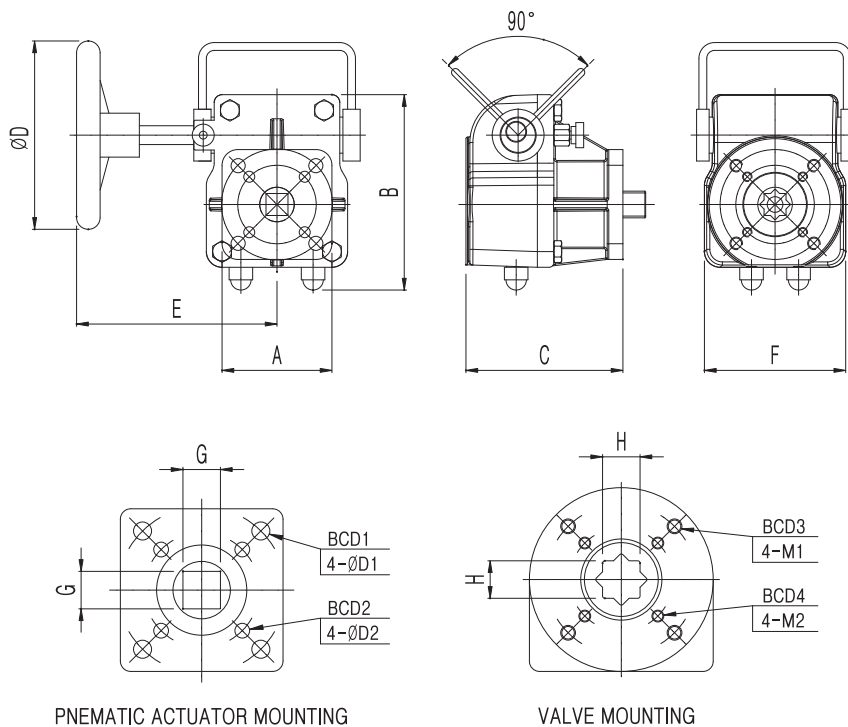


● Features

- Direct Mounting
- High Power

● Specification

Model No.	ADG050	ADG070	ADG140
Max. Output Torque	300Nm	360Nm	1310Nm
Pneumatic Actuator Mounting Flange(ISO 5211)	F05 / F07	F07 / F10	F07 / F12
Valve Mounting Flange(ISO 5211)	F05 / F07	F07 / F10	F10 / F12
Reduction Ratio	40 : 1	38 : 1	50 : 1
Number Of Turns 90°	10 TURN	9.5 TURN	12.5 TURN
Handwheel Diameter	Ø200	Ø200	Ø400
Weight	2.3kg	3.5kg	12.5kg
Application For Pneumatic Actuator	AS50/65/80 AD50/65/80	AS100 AD100/125	AS125/140 AD140/160

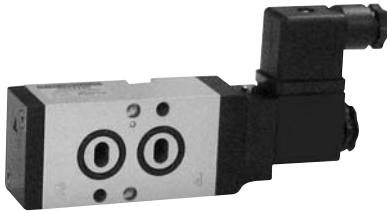


● Dimension

ADG Series (mm)

DIM. Model	A	B	C	ØD	E	F	G	H	Pneumatic Actuator		Valve Mounting	
									BCD1/2	4-ØD/12	BCD1/2	4-M/12
ADG050	70	125	100	200	143	90	11 × 11	14 × 14	Ø50/70	4-Ø6.5/8.5	Ø50/70	4-M6/M8
ADG070	95	150	118	200	177	125	17 × 17	17 × 17	Ø70/102	4-Ø8.5/10.5	Ø70/102	4-M8/M10
ADG140	140	225	162	400	325	185	22 × 22	27 × 27	Ø102/125	4-Ø11/14	Ø102/125	4-M10/M12

ANS Series

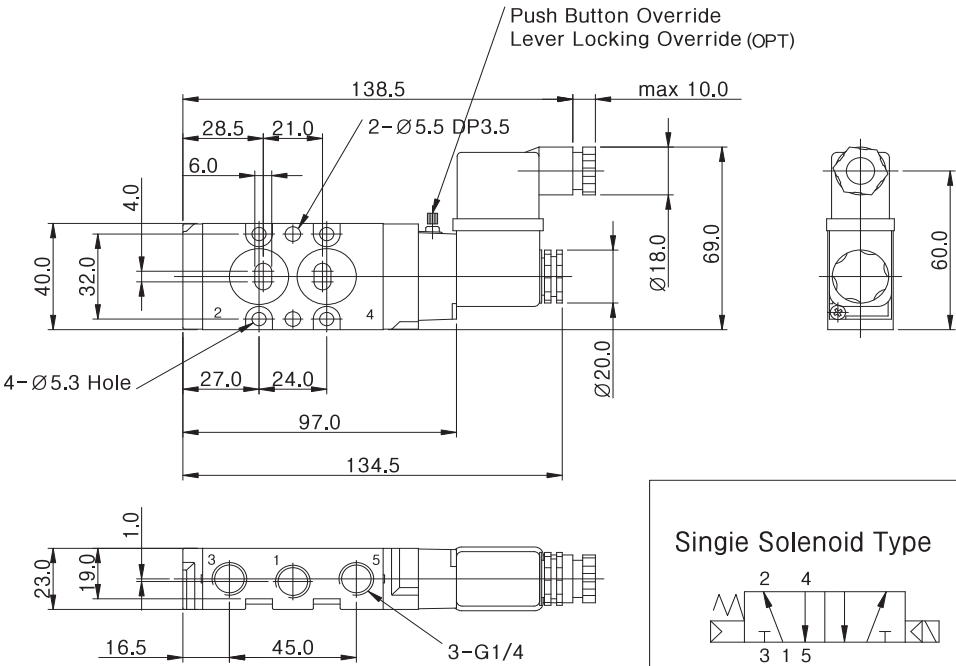


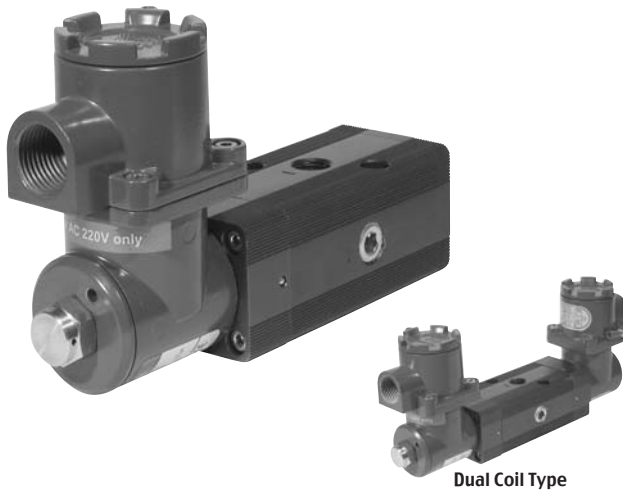
● Features

- 5 Port pilot type
- NAMUR interface
- Compact - light weight
- Mass flow - CV1.0
- Effective sectional area - 35.0mm²
- Excellent endurance

● Specification

Model	ANS (Single coil)	ANS-D (Double Coil)
Fluid	Air & Inert Gas	
Pressure (Bar)	1.5 ~ 10.0	2.0~10.0
Ambient Temperature	5℃~ 60℃	
Response Time(at 5 Bar)	30ms below	
Lubrication	Not required	
Rated Voltage	AC110V, 220V (50/60Hz), DC24V	
Coil Insulation	±10%	





*Explosion proof solenoid valve
for a confident control in
rough working environments*

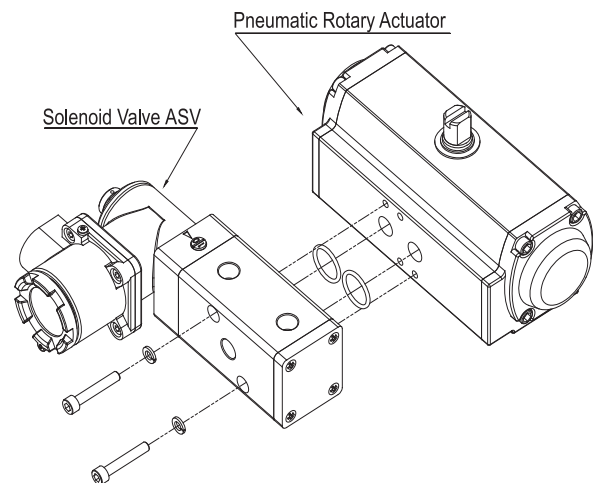
Features

- ▶ Rugged aluminum die-cast housing
- ▶ Convertible from 5/2 way to 3/2 way
- ▶ Rotatable valve head for optimal mounting
- ▶ Direct NAMUR or screw mounting
- ▶ Optional dual coil

Specifications

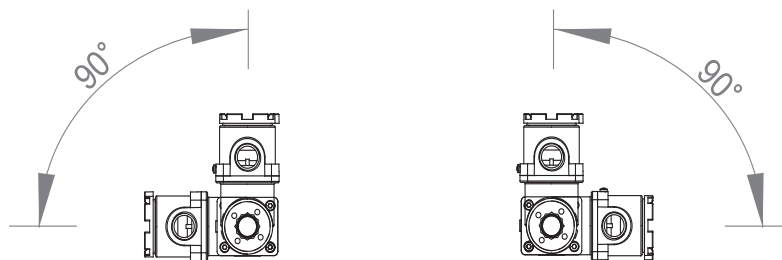
Model	ASV
Operating Air Pressure	1.5 - 10 kgf/ cm ²
Air Supply (Max.)	15 kgf/ cm ²
Operating Voltage : Current	AC 110V : 55 mA AC 220V : 17 mA DC 24V : 138 mA
Voltage Tolerance	±10%
Frequency	50Hz / 60Hz
Explosion Proof Class	Exd IIC T6 KOSHA Cert. No.2008-1052-Q1
Operating Ambient Temperature	-20℃- +60℃
Flow Capacity (Cv)	0.9
Mounting Configuration	NAMUR or screw interface
Pneumatic Connections	PT 1/4 or NPT 1/4
Electrical Connection	PF1/2 or NPT 1/2
Coil Insulation Grade	Class F
Duty Cycle	100%
Weight	0.9 kg
Silencers	2 pcs included as standard

Mounting



Rotatable Valve Head

The ASV valve head can be rotated by 90° to the right or to the left for an optimal mounting as shown below



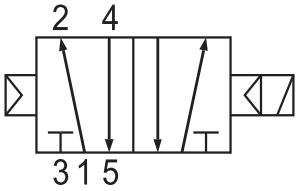
How to Order



Description	ASV
Coil	S : Single Coil D : Dual Coil
Operating Voltage	A220 : AC 220V A110 : AC 110V D24 : DC 24V
Connections (pneumatic - electrical)	P : PT 1/4 - PF 1/2 N : NPT 1/4 - NPT 1/2

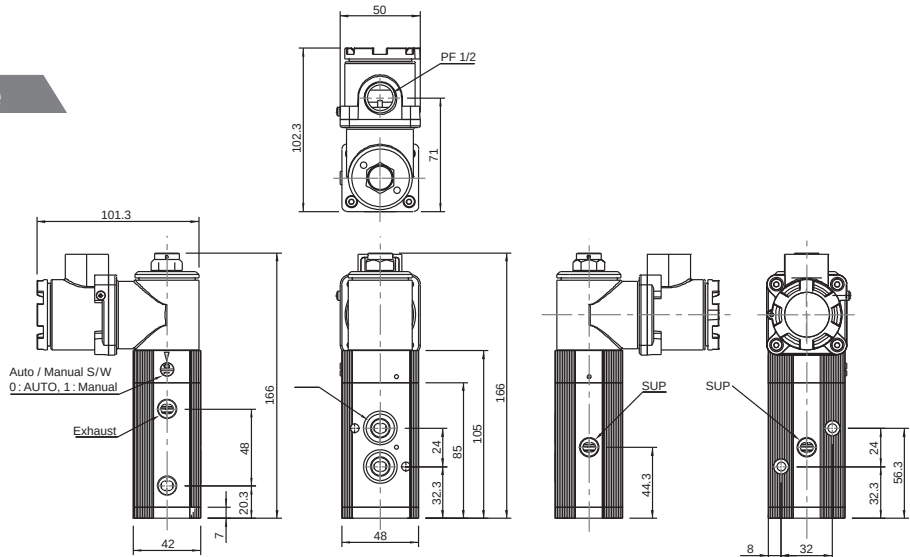
Ex) ASV-S-D24P (Single Coil, 24VDC, PT1/4 - PF1/2)

Symbol of Operation

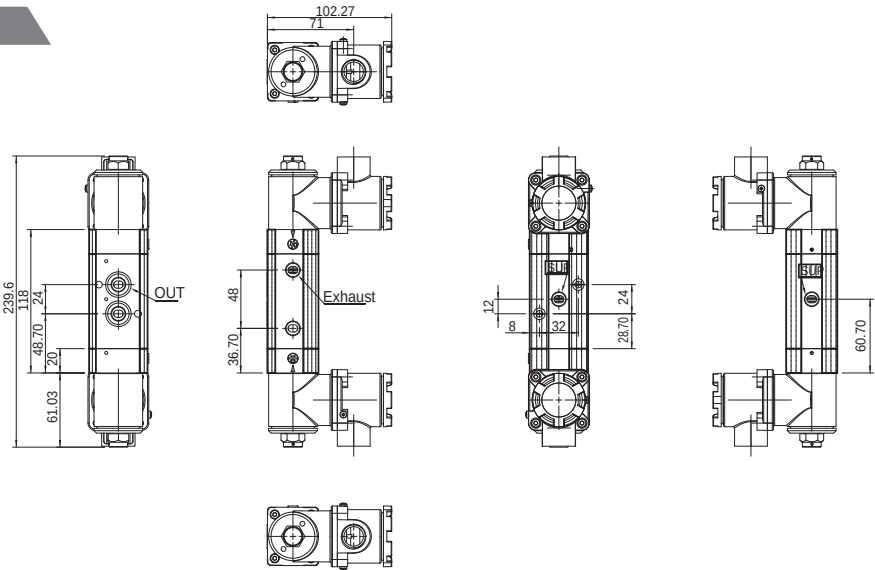


Dimensions

Single Coil Type



Dual Coil Type



AFR-10, 20



AFR-10



AFR-20

● Features

- Compact design
- Pressure adjustment without a tool

● Specification

Model	AFR-10 (Metal Bowl)	AFR-20 (PC Bowl)
Max. Pressure	10.2kgf/cm ²	
Fluids	Air & Inert Gas	
Filtration	5mm	
Ambient Temperature	5°C ~ 70°C	
Set Pressure Range	0 ~ 8bar	
Drain Capacity (cm ³)	12	
Port Size	1/4" PT	

Electro-Pneumatic Positioner



● Features

- Easy maintenance
- Simple SPAN and ZERO adjustments
- NAMUR mounting
- Simple structure for feedback connection
- Simple conversion to direct acting and reverse acting

● Specification

Model	EPR (Rotary type)	EPL (Linear type)
Enclosure	Exmd Ⅲ-B T6, Exmd Ⅲ-C(H2) T6, IP66, Exia Ⅲ-BT6	
Fluids	Air	
Input Signal	4 ~ 20mA DC	
Split range Application	4~12 or 12~20mA	
Voltage Supply Min./Max.	8 Vdc / 30Vdc	
Linearity	< 1.0 %	
Hysteresis	< 0.5 %	
Sensitivity	< 0.5 %	
Operating Temperature	-20°C ~ 80°C	
Air Piping Connection	1/4" PT	
Conduit Connection	1/2" PF	

Speed Controller



FC1-8



FC3-8



FC3G-8

● Features

The speed controller is installed on actuators such as cylinders and air motors and controls the operating speed of the actuator by adjusting the flow through the actuator.

● Specification

Model	FC Series		
	FC1-8	FC3-8	FC3G-8
Operating Pressure	0.5 ~ 15.3 kgf/cm ²		
Fluids Temperature	5°C ~ 60°C		
Operating Temperature	-10°C ~ 60°C		
No. of Needle Rotations	14		10
Port Size	1/4" PT		

Muffler



ASC-8A



ASL-8A

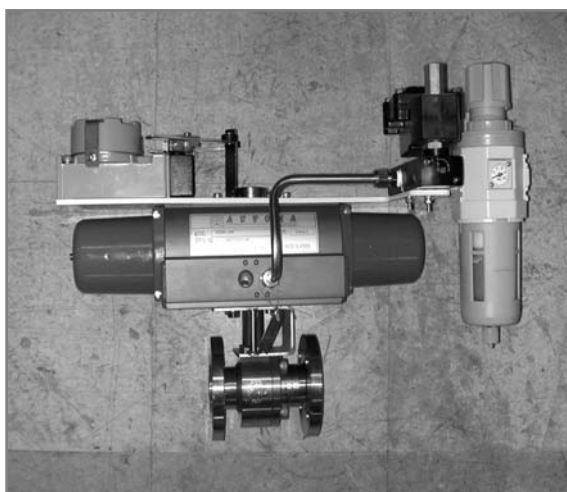
● Features

Mufflers are designed to attenuate the exhaust noise caused by control of pneumatic lines. In general, mufflers are mounted on the exhaust ports of solenoid valve, directional control valves and like, to reduce exhaust noise when direction is changed. This contributes to overall noise reduction in plants.

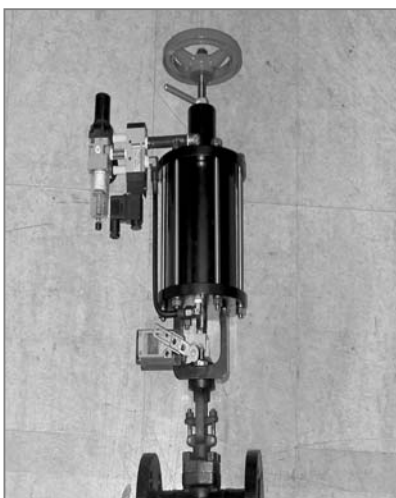
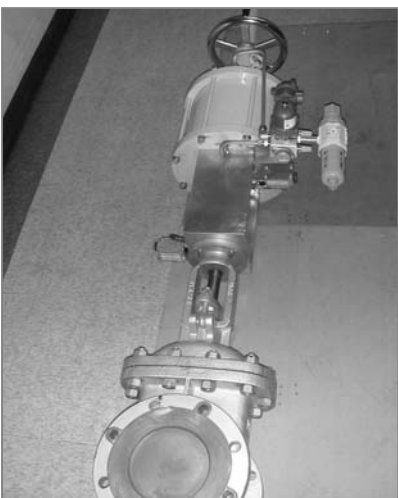
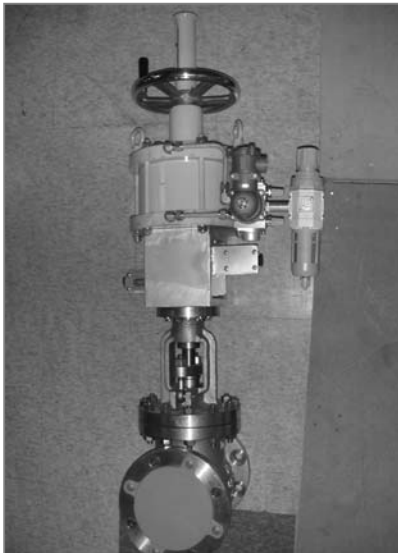
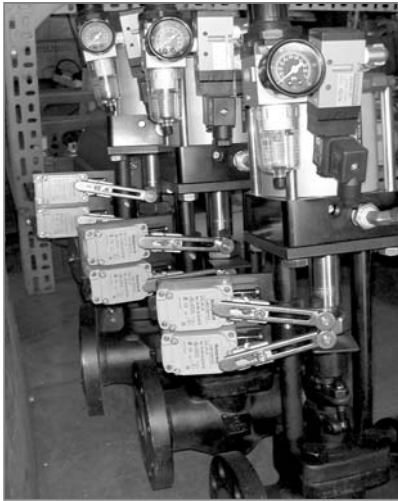
● Specification

Model	SL Series	
	ASC-8A	ASL-8A
Operating Pressure	0 ~ 10.07 kgf/cm ²	
Fluids Temperature	5°C ~ 60°C	
Operating Temperature	-10°C ~ 60°C	
Noise	20dB	
Port Size	1/4" PT	
Material	Metal	
Function	Speed control + Suppression	Sound Suppression

SAMPLES



SAMPLES





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www.automa-int.com

※ The product is subject to change for technical development and quality improvement without prior notice.